

# AT-49 Series

## Through Hole Type Crystals

Frequency Range	1.800 ~ 230.000 MHz
Oscillation Mode	Fundamental, 3 <sup>rd</sup> , 5 <sup>th</sup> , 7 <sup>th</sup> , 9 <sup>th</sup> Overtone
Frequency Tolerance	±5ppm, ±10ppm, ±15ppm, ±20ppm @+25
Frequency Stability	± 5ppm, ±10ppm, ±15ppm, ±20ppm
Operating temperature range	0 ~ +70 , -40 ~ +85 ,
Equivalent series resistance	As per Chart below
Load Capacitance	Customer Specified
Drive Level	500 μ W (1m W Max.)

All specifications are subject to change without notice.

Option: \*Tighter Tolerance, Tighter Stability, Extended Temperature

### Equivalent Series Resistance :

Frequency (MHz)	Equivalent Series Resistance( Ω )	Oscillation Mode
1.8432	500	Fundamental
2.000~2.999	350	Fundamental
3.000~3.199	200	Fundamental
3.200~3.999	150	Fundamental
4.000~4.499	100	Fundamental
4.500~4.999	80	Fundamental
5.000~6.999	50	Fundamental
7.000~9.999	35	Fundamental
10.000~40.000	25	Fundamental
20.000~74.999	40	3 <sup>rd</sup> Overtone
75.000~90.000	50	3 <sup>rd</sup> Overtone
75.000~150.000	60	5 <sup>th</sup> Overtone
130.000~200.000	100	7 <sup>th</sup> Overtone
190.000~230.000	120	5 <sup>th</sup> Overtone

